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## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification <sup>6</sup> :</p> <p>C07D 495/04, 498/04, 513/04, 471/04, 491/04, A61K 31/44, 31/50, 31/505 // (C07D 495/04, 333:00, 239:00) (C07D 495/04, 333:00, 221:00) (C07D 498/04, 263:00, 221:00) (C07D 513/04, 277:00, 221:00) (C07D 471/04, 235:00, 221:00) (C07D 495/04, 333:00, 237:00) (C07D 491/04, 307:00, 221:00)</p>	A3	<p>(11) International Publication Number: <b>WO 99/62908</b></p> <p>(43) International Publication Date: 9 December 1999 (09.12.99)</p>
<p>(21) International Application Number: PCT/US99/12419</p> <p>(22) International Filing Date: 3 June 1999 (03.06.99)</p> <p>(30) Priority Data: 09/090,701 4 June 1998 (04.06.98) US</p> <p>(71) Applicant: ABBOTT LABORATORIES [US/US]; CHAD 0377/AP6D-2, 100 Abbott Park Road, Abbott Park, IL 60064-6050 (US).</p> <p>(72) Inventors: STEWART, Andrew, O.; 1289 Thornbury Lane, Libertyville, IL 60048 (US). BOYD, Steven, A.; 410 Lakeview Drive, Mundelein, IL 60060 (US). ARENSEN, David, L.; 431 East Austin Avenue, Libertyville, IL 60048 (US). BHATIA, Pramila; 1602 Mulberry Drive, Libertyville, IL 60048 (US). CONDROSKI, Kevin, R.; 1112 Oak Avenue, Evanston, IL 60202 (US). FREEMAN, Jennifer, C.; 1908 Country Drive #303, Grayslake, IL 60030 (US). GUNAWARDANA, Indrani, W.; 622 Nordic Court,</p>		<p>Libertyville, IL 60048 (US). ZHU, Gui-Dong; 1395 Al-maden Lane, Gurnee, IL 60031 (US). LARTEY, Kraig; 3170 Grandville Avenue, Waukegan, IL 60085 (US). MC-CARTY, Catherine, M.; 231 Freeman Street #1, Brookline, MA 02446 (US). MORT, Nicholas, A.; 721 North Avenue, Waukegan, IL 60085 (US). PATEL, Meena, V.; Tower 3, 605 W. Madison Street #3703, Chicago, IL 60661 (US). STAEGER, Michael, A.; 4919 S. 35th Street, Greenfield, WI 53221 (US). STOUT, David, M.; 416 Elm Drive, Libertyville, IL 60048 (US).</p> <p>(74) Agents: STEELE, Gregory, W. et al.; Abbott Laboratories, CHAD 0377/AP6D-2, 100 Abbott Park Road, Abbott Park, IL 60064-3500 (US).</p> <p>(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p>Published With international search report.</p> <p>(88) Date of publication of the international search report: 30 March 2000 (30.03.00)</p>
<p>(54) Title: CELL ADHESION-INHIBITING ANTINFLAMMATORY COMPOUNDS</p> <p>(57) Abstract</p> <p>Compounds having Formula (I) are useful for treating inflammation. Also disclosed are pharmaceutical compositions comprising compounds of Formula (I), and methods of inhibiting/treating inflammatory diseases in a mammal.</p> <div style="text-align: center;"> <p>(I)</p> </div>		

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# INTERNATIONAL SEARCH REPORT

Inter:      national Application No

PCT/US 99/12419

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 6    C07D495/04    C07D498/04    C07D513/04    C07D471/04    C07D491/04  
 A61K31/44    A61K31/50    A61K31/505    //(C07D495/04,333:00,  
 239:00),(C07D495/04,333:00,221:00),(C07D498/04,263:00,221:00),

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6    C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 010 249 A (PARCOR) 27 June 1979 (1979-06-27) claims 1,5-8 ---	1,6,12, 18
X	US 3 903 095 A (TSUNG-YING SHEN ET AL.) 2 September 1975 (1975-09-02) abstract; claims; examples ---	1,12,18
X	DE 23 30 109 A (MERCK & CO. INC.) 3 January 1974 (1974-01-03) page 1 -page 1; examples ---	1,14,19
X	EP 0 260 613 A (G. D. SEARLE & CO.) 23 March 1988 (1988-03-23) page 3, line 42 - line 45; examples 6-9,11 --- -/--	1,16

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Date of the actual completion of the international search

10 December 1999

Date of mailing of the international search report

29/12/1999

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# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 99/12419

## A. CLASSIFICATION OF SUBJECT MATTER

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(C07D495/04, 333:00, 237:00), (C07D491/04, 307:00, 221:00)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

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X	WO 98 20007 A (DARWIN DISCOVERY LTD.) 14 May 1998 (1998-05-14) abstract; claims 1,11,12 ---	1
X	WO 96 11192 A (G. D. SEARLE & CO.) 18 April 1996 (1996-04-18) abstract; examples 170,287 ---	1
X	FR 2 336 132 A (PARCOR) 22 July 1977 (1977-07-22) page 3, line 4 page 4, line 11 ---	1,6,12, 18
X	A.. D. DUNN ET AL.: J. PRAKT. CHEM. / CHEM.-ZTG., vol. 334, no. 6, 1992, pages 483-6, XP002125296 page 484, compounds 9, 10, 18 ---	1,6,8
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# INTERNATIONAL SEARCH REPORT

Intern .nal Application No

PCT/US 99/12419

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	J. M. BARKER ET AL.: J. CHEM. RES. (S), no. 4, 1986, pages 122-3, XP000566528 schemes A, B, C	1,8,10
X	M. A. KHAN ET AL.: J. HETEROCYCLIC CHEM., vol. 14, no. 5, 1977, pages 807-12, XP002125297 page 807, left-hand column, formulae	1,8,10
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Y	FR 2 334 356 A (PARCOR) 8 July 1977 (1977-07-08) claims 1,2	1,6,12, 18
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Y	WO 89 08653 A (G. D. SEARLE & CO.) 21 September 1989 (1989-09-21) page 1, line 9 - line 18; claims 1,2,9	1,16
	-/--	

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 99/12419

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4 988 707 A (M. A. STEALEY ET AL.) 29 January 1991 (1991-01-29) column 1, line 7 - line 14; examples 1-5	1,16
Y	US 5 227 384 A (I. K. KHANNA ET AL.) 13 July 1993 (1993-07-13) column 1, line 12 - line 19; examples	1,16

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 99/12419

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
Although claim 23 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition (Rule 39.1 (iv) PCT - Method for treatment of the human or animal body by therapy).
2. ☒ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest:
- ☐ No protest accompanied the payment of additional search fees.



## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1,2,4,6,8,10,12,14,16-20 (incompletely)

Present claims 1,2,4,6,8,10,12,14,16-20 relate to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compounds covered by the examples given in the description.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

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information on patent family members

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International Application No

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